

U.S. Methane Studies

Paper title and link, listed in chronological order from most recent to earliest

Last updated on 2/6/2019

Methane Emissions from Natural Gas Production Sites in the United States: Data Synthesis and National Estimate

<https://pubs.acs.org/doi/10.1021/acs.est.8b03535>

Vehicle-Based Methane Surveys for Finding Natural Gas Leaks and Estimating Their Size: Validation and Uncertainty

<https://pubs.acs.org/doi/10.1021/acs.est.8b03135>

Assessment of methane emissions from the U.S. oil and gas supply chain

<http://science.sciencemag.org/content/early/2018/06/20/science.aar7204>

A calibration capture–recapture model for inferring natural gas leak population characteristics using data from Google Street View cars

<https://onlinelibrary.wiley.com/doi/pdf/10.1002/env.2519>

Future methane emissions from the heavy-duty natural gas transportation sector for stasis, high, medium, and low scenarios in 2035

<http://www.tandfonline.com/doi/abs/10.1080/10962247.2017.1368737>

Spatiotemporal Variability of Methane Emissions at Oil and Natural Gas Operations in the Eagle Ford Basin

<http://pubs.acs.org/doi/abs/10.1021/acs.est.7b00814>

Rapid, Vehicle-Based Identification of Location and Magnitude of Urban Natural Gas Pipeline Leaks

<http://pubs.acs.org/doi/abs/10.1021/acs.est.6b06095>

Super-emitters in Natural Gas Infrastructure are caused by abnormal process conditions

<http://www.nature.com/articles/ncomms14012>

Pump-to-Wheels Methane Emissions from the Heavy-Duty Transportation Sector

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b06059>

Direct and Indirect Measurements and Modeling of Methane Emissions in Indianapolis, Indiana

<http://pubs.acs.org/doi/abs/10.1021/acs.est.6b01198>

Aerial Surveys of Elevated Hydrocarbon Emissions from Oil and Gas Production Sites

<http://pubs.acs.org/doi/abs/10.1021/acs.est.6b00705>

Emissions of coalbed and natural gas methane from abandoned oil and gas wells in the United States

<http://onlinelibrary.wiley.com/doi/10.1002/2015GL067623/full>

Possible Malfunction in Widely Used Methane Sampler Deserves Attention but Poses Limited Implications for Supply Chain Emission Estimates

<https://www.elementascience.org/articles/10.12952/journal.elementa.000137/>

Reconciling divergent estimates of oil and gas methane emissions

<http://www.pnas.org/content/112/51/15597.abstract>

Methane Emissions from United States Natural Gas Gathering and Processing

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b02275>

Using Multi-Scale Measurements to Improve Methane Emission Estimates from Oil and Gas Operations in the Barnett Shale Region, Texas

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b02305>

Methane Emissions from Leak and Loss Audits of Natural Gas Compressor Stations and Storage Facilities

<http://pubs.acs.org/doi/abs/10.1021/es506163m>

Integrating Source Apportionment Tracers into a Bottom-up Inventory of Methane Emissions in the Barnett Shale Hydraulic Fracturing Region

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b00057>

Airborne Ethane Observations in the Barnett Shale: Quantification of Ethane Flux and Attribution of Methane Emissions

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b00219>

Toward a Functional Definition of Methane Super-Emitters: Application to Natural Gas Production Sites

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b00133>

Direct Measurements Show Decreasing Methane Emissions from Natural Gas Local Distribution Systems in the United States

<http://pubs.acs.org/doi/abs/10.1021/es505116p>

Aircraft-Based Estimate of Total Methane Emissions from the Barnett Shale Region

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b00217>

Aircraft-Based Measurements of Point Source Methane Emissions in the Barnett Shale Basin

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b00410>

Assessment of Methane Emissions from Oil and Gas Production Pads using Mobile Measurements

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b00410>

Characterizing Fugitive Methane Emissions in the Barnett Shale Area Using a Mobile Laboratory

<http://pubs.acs.org/doi/abs/10.1021/es5063055>

Constructing a Spatially Resolved Methane Emission Inventory for the Barnett Shale Region

<http://pubs.acs.org/doi/abs/10.1021/es506359c>

Near-Field Characterization of Methane Emission Variability from a Compressor Station Using a Model Aircraft

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b00705>

Methane Emissions from the Natural Gas Transmission and Storage System in the United States

<http://www.atmos-meas-tech.net/8/2017/2015/amt-8-2017-2015.html>

Measurements of Methane Emissions from Natural Gas Gathering Facilities and Processing Plants: Measurement Results

<http://pubs.acs.org/doi/abs/10.1021/es5052809>

Measuring Emissions from Oil and Natural Gas Well Pads Using the Mobile Flux Plane Technique

<http://pubs.acs.org/doi/abs/10.1021/acs.est.5b00099>

Mobile Laboratory Observations of Methane Emissions in the Barnett Shale Region

<http://pubs.acs.org/doi/abs/10.1021/es506352j>

Methane Emissions from Natural Gas Compressor Stations in the Transmission and Storage Sector: Measurements and Comparisons with the EPA Greenhouse Gas Reporting Program Protocol

<http://pubs.acs.org/doi/abs/10.1021/es5060258>

Methane emissions from natural gas infrastructure and use in the urban region of Boston, Massachusetts

<http://www.pnas.org/content/112/7/1941.abstract>

**Methane Emissions from Process Equipment at Natural Gas Production Sites in the United States:
Pneumatic Controllers**

<http://pubs.acs.org/doi/abs/10.1021/es5040156>

**Methane Emissions from Process Equipment at Natural Gas Production Sites in the United States:
Liquid Unloadings**

<http://pubs.acs.org/doi/abs/10.1021/es504016r>

**Measurements of methane emissions from natural gas gathering facilities and processing plants:
measurement methods**

<http://www.atmos-meas-tech.net/8/2017/2015/amt-8-2017-2015.html>

**A new look at methane and nonmethane hydrocarbon emissions from oil and natural gas operations
in the Colorado Denver-Julesburg Basin**

<http://onlinelibrary.wiley.com/doi/10.1002/2013JD021272/pdf>

Measurements of methane emissions at natural gas production sites in the United States

<http://www.pnas.org/content/110/44/17768>

Total publications: 38

Total authors: 161

Total institutions: 43